

Christie DHD951-Q and DHD851-Q lens throw ratios

The following table details the information required to calculate the lens throw ratios for the Christie DHD951-Q and DHD851-Q projectors.

Lens	Throw distance formula		Vertical and horizontal offset	Diagonal screen sizes	
	Imperial (in)	Metric (cm)		Imperial (in)	Metric (cm)
0.8-1.0:1 zoom (121-118101-XX)	TDmin = 0.78 x W + 2.69	TDmin = 0.78 x W + 6.84	+125% -50% V	50 to 600	127 to 1524
	TDmax = 0.97 x W + 2.82	TDmax = 0.97 x W + 7.16	±22% H		
1.1-1.7:1 zoom (121-119102-XX)	TDmin = 1.18 x W + 1.46	TDmin = 1.18 x W + 3.71	+125% -50% V	50 to 600	127 to 1524
	TDmax = 1.75 x W + 1.82	TDmax = 1.75 x W + 4.62	±22% H		
1.6-2.4:1 zoom—standard lens (121-120104-XX/121-134109-XX)	TDmin = 1.65 x W + 0.96	TDmin = 1.65 x W + 2.43	+125% -50% V	50 to 600	127 to 1524
	TDmax = 2.47 x W + 1.22	TDmax = 2.47 x W + 3.11	±22% H		
2.4-3.6:1 zoom (121-122106-XX)	TDmin = 2.43 x W + 1.13	TDmin = 2.43 x W + 2.88	+125% -50% V	50 to 600	127 to 1524
	TDmax = 3.69 x W + 1.19	TDmax = 3.69 x W + 3.02	±22% H		
3.5-5.6:1 zoom (121-123107-XX)	TDmin = 3.56 x W - 1.89	TDmin = 3.56 x W - 4.75	+125% -50% V	50 to 600	127 to 1524
	TDmax = 5.72 x W - 1.81	TDmax = 5.72 x W - 4.59	±22% H		
5.5-8.8:1 zoom (121-124108-XX)	TDmin = 5.46 x W + 11.39	TDmin = 5.46 x W + 28.94	+125% -50% V	50 to 600	127 to 1524
	TDmax = 8.70 x W + 12.48	TDmax = 8.70 x W + 31.70	±22% H		

- Throw distance measured from the center of the front foot of the projector.
- All lenses are made of glass.
- Calculated throw distance (TD) values are subject to a +/- 5% tolerance for individual lens variation.
- Calculated offset values are subject to a +/- 7% centering tolerance.